

PROJECT DESCRIPTION

THE PROJECT INVOLVES MODIFYING THE EXISTING TRAFFIC SIGNAL INSTALLATION AT MD 355 (WISCONSIN AVENUE) AND BETHESDA AVENUE/WILLOW LANE BY CONVERTING THE EXISTING EXCLUSIVE/PERMISSIVE TRAFFIC SIGNAL HEADS ALONG MD 355 (WISCONSIN AVENUE) TO EXCLUSIVE LEFT-TURN ARROW TRAFFIC SIGNAL HEADS. MD 355 RUNS IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING EIGHT-PHASE FULLY ACTUATED NEMA CONTROLLER WILL BE USED. THE CONTROLLER WILL OPERATE AS A SIX PHASE FULLY ACTUATED CONTROLLER. AN EXCLUSIVE LEFT-TURN PHASE WILL OPERATE FROM MD 355 (WISCONSIN AVENUE) AND PROVIDE A FLASHING LEFT-TURN ARROW DURING THE CONCURRENT NORTHBOUND AND SOUTHBOUND MD 355 (WISCONSIN AVENUE) PHASE. A CONCURRENT PEDESTRIAN MOVEMENT WILL OCCUR DURING THE NORTHBOUND AND SOUTHBOUND PHASE. EASTBOUND BETHESDA AVENUE WILL OPERATE CONCURRENTLY WITH A WESTBOUND EXIT FROM THE FARMERS MARKET. WILLOW LANE IS A ONE WAY EASTBOUND ROADWAY. A CONCURRENT PEDESTRIAN PHASE WILL ALSO OCCUR DURING THE EASTBOUND AND WESTBOUND PHASE.

MAINTENANCE OF TRAFFIC

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USE FOR THIS PROJECT:

- STANDARD NO. 104.00  
STANDARD NO. 104.44-01 (LEFT LANE CLOSURE)  
STANDARD NO. 104.45-01 (RIGHT LANE CLOSURE)  
STANDARD NO. 104.46-01 (CENTER LANE CLOSURE)  
STANDARD NO. 104.48-01 (INTERSECTION (LEFT LANE/TURN BAY CLOSURE))  
STANDARD NO. 104.49-01 (SHOULDER WORK)

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS

MR. LEE STARKLOFF  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
301-513-7318

MR. AUGUSTINE REBISH  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
301-513-7350

MR. RALEIGH MEDLEY  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
301-513-7304

THE POWER COMPANY REPRESENTATIVE IS:

POTOMAC ELECTRIC POWER COMPANY  
MS. ELIZA HEMINGWAY  
301-931-2880

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
410-787-7676

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9001	14 SF	SHEET ALUMINUM SIGN
		1-EACH R10-12(4) (36"X42") PEDESTAL POLE MOUNT
		1-EACH OM-1(1) (18"X18") GROUND MOUNT

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
5005	10 LF	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
8011	15 EA	F&I 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8030	1 EA	F&I PEDESTAL POLE (14 FOOT)
8046	1 EA	PAINT STRUCTURE ON GROUND
8048	1 EA	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT PER ASSIGNMENT
8051	10 LF	F&I 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8059	1 CY	F&I CONCRETE FOR SIGNAL FOUNDATION
8062	10 LF	F&I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8060	10 LF	F&I WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8076	3 SF	INSTALL GROUND MOUNTED SIGN
8077	11 SF	INSTALL OVERHEAD SIGN
8082	1 EA	F&I GROUND ROD 3/4 INCH DIAMETER X 10 FOOT LENGTH
8087	600 LF	F&I ELECTRICAL CABLE - 7 CONDUCTOR (NO 14 AWG)
NEG.	10 SF	REMOVE AND REPLACE EXISTING BRICK MEDIAN PAVERS

C. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

NOTE: NO EQUIPMENT IS TO BE RETURNED TO MSHA. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

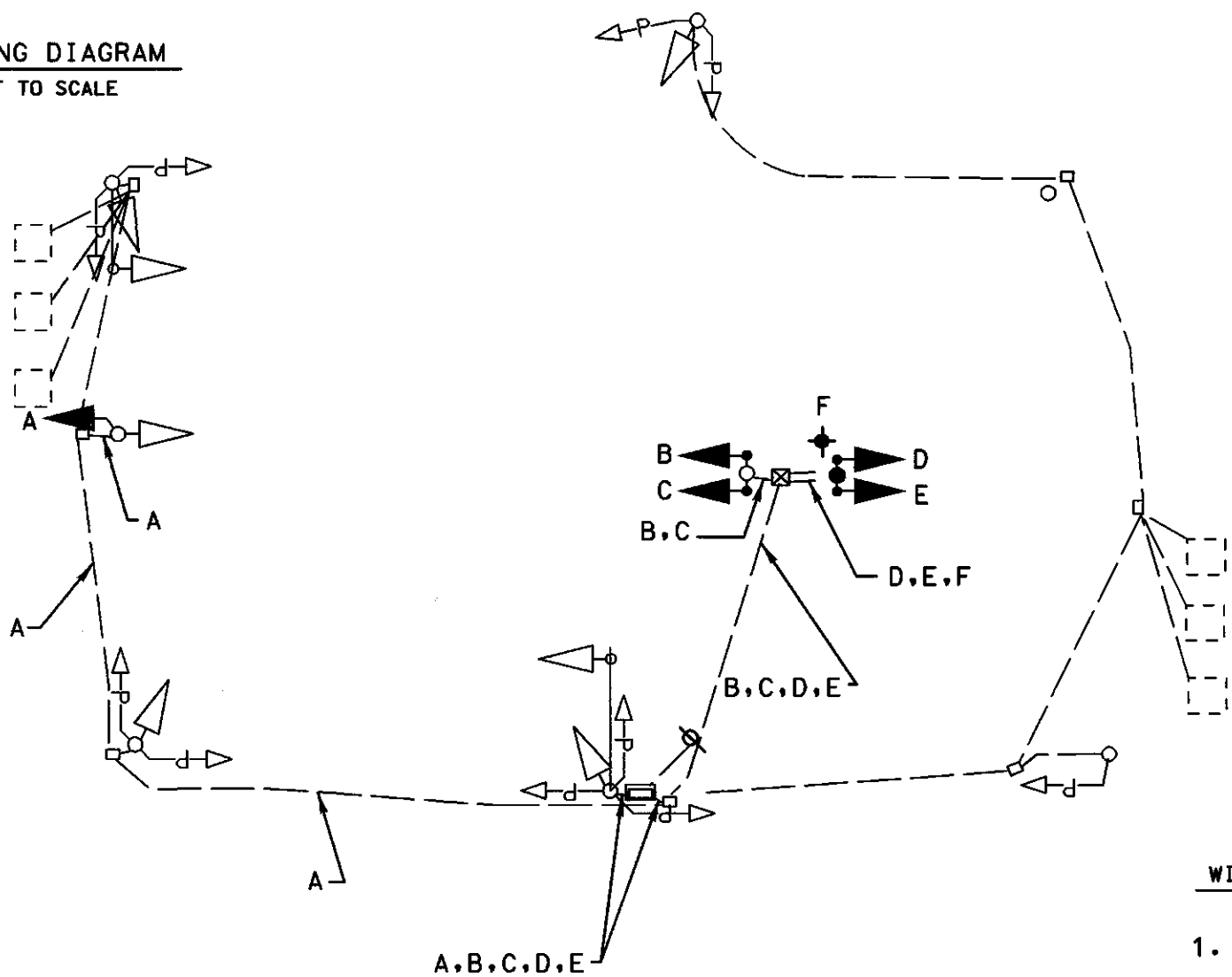
PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12	13-16	17-18	19-22

Phase 1 & 5	<G-	<G-	R	R	<G-	<G-	R	R	R	R	R	R	DW	DW	DW	
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6															
Phase 1 & 6	<G-	<G-	G	G	<R-	<R-	R	R	R	R	R	R	W	DW	DW	
Ped Clear	<G-	<G-	G	G	<R-	<R-	R	R	R	R	R	R	FL/DW	DW	DW	
1 & 6 Change	<Y-	<Y-	Y	Y	<R-	<R-	R	R	R	R	R	R	DW	DW	DW	
Phase 2 & 5	<R-	<R-	R	R	<G-	<G-	G	G	R	R	R	R	DW	W	DW	
Ped Clear	<R-	<R-	R	R	<G-	<G-	G	G	R	R	R	R	DW	FL/DW	DW	
2 & 5 Change	<R-	<R-	R	R	<Y-	<Y-	Y	Y	R	R	R	R	DW	DW	DW	
Phase 2 & 6	FL/<R-	FL/<R-	G	G	FL/<R-	FL/<R-	G	G	R	R	R	R	W	W	DW	
Ped Clear	FL/<R-	FL/<R-	G	G	FL/<R-	FL/<R-	G	G	R	R	R	R	FL/DW	FL/DW	DW	
2 & 6 Change	FL/<R-	FL/<R-	Y	Y	FL/<R-	FL/<R-	Y	Y	R	R	R	R	DW	DW	DW	
Phase 4 & 8	<R-	<R-	R	R	<R-	<R-	R	R	G	G	G	G	DW	DW	W	
Ped Clear	<R-	<R-	R	R	<R-	<R-	R	R	G	G	G	G	DW	DW	FL/DW	
4 & 8 Change	<R-	<R-	R	R	<R-	<R-	R	R	Y	Y	Y	Y	DW	DW	DW	
Flashing Operation	FL/<R-	FL/<R-	FL/Y	FL/Y	FL/<R-	FL/<R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	

\*\*PHASE 2 & 5 SHALL BE A LAG-LEFT TURN PHASE DURING THE EVENING PEAK PERIODS.

WIRING DIAGRAM  
NOT TO SCALE



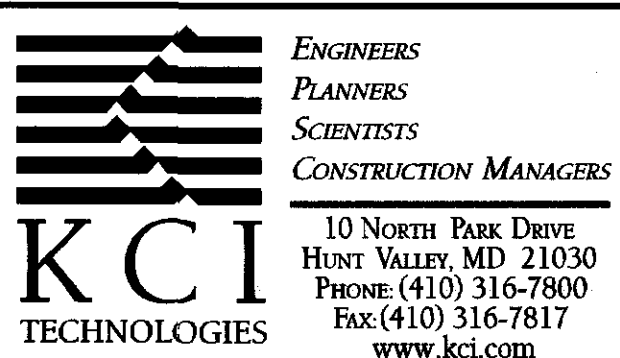
WIRING LEGEND

- A,B,C,D,E - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)  
F - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)  
+ - GROUND ROD 3/4 INCH DIAMETER AND 10 FOOT LENGTH

WIRING NOTES

- EXISTING WIRING FOR EQUIPMENT WHICH IS BEING REMOVED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- EXISTING WIRING NOT DETAILED SHALL REMAIN IN PLACE.

MD 355 (WISCONSIN AVENUE) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.



<b>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION</b> <b>Office of Traffic &amp; Safety</b> <b>TRAFFIC ENGINEERING DESIGN DIVISION</b> MD 355 (WISCONSIN AVENUE) AT BETHESDA AVENUE/WILLOW LANE GENERAL INFORMATION SHEET BETHESDA, MARYLAND			
DRAWN BY: M. PIERRE	F.A.P. NO. AC-STPG-0005(786)E	TS NO. 4228B-GI	SHEET NO. 2 OF 2
CHECKED BY: J. LAWRENCE	S.A.L. NO. MD04945105L		
SCALE: NONE	COUNTY: MONTGOMERY	T.I.M.S. NO. F060	
DATE: 6/1/03	LOG MILE: J5035501.45		